



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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APR 12 2002

Technology Center 2100

In re patent application of

Numa

Serial No. 09/994,795

Examiner (unknown)

Filed November 28, 2001

Art Unit 2183

For DATA INPUT/OUTPUT METHOD AND SYSTEM WITHOUT BEING  
NOTIFIEDAssistant Commissioner of Patents  
Washington, D.C. 20231

## INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Under the provisions of 37 C.F.R. 1.97 through 1.98 and pursuant to applicant's duty of disclosure under 37 C.F.R. 1.56, applicant respectfully brings the following documents listed in the attached form PTO-1449 to the attention of the Examiner in charge of the above-identified application. Copies of the listed documents are provided herewith for the convenience of the Examiner.

This citation does not constitute an admission that the references are relevant or material to the claims. They are only cited as constituting related art of which the applicant is aware.

It is respectfully requested that the listed references be considered by the Examiner and be formally made of record in the application.

Respectfully submitted,

Michael E. Whitham  
Reg. No. 32,635

30743

PATENT TRADEMARK OFFICE

#12  
04-15-2

02110050AA

1. Claim 5/Reason 1/Citations 1-3

In accomplishing audio recognition through the use of a skeletal conduction microphone and speaker, as referred to in Citation 1, combining the "point of making the object of recognition to be sounds produced within the oral cavity" as referred to in Citation 2, with the "point of attaching the control device (corresponding to the "main body processor" of Claim 5 of the present application) in a position removed from that of the input processor", as referred to in Citation 3, is something which could be easily conceived by one skilled in the same technology sector as that belonging to Citations 1-3.

Reference Citation List

1. Microfilm of Japanese Utility Model Application  
Sho 58-23304  
(Japanese Laid Open Utility Model Sho 59-130141)
2. Japanese Laid Open Patent Publication Hei 5-333894
3. Japanese Laid Open Patent Publication Hei 10-268894

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Record of the Examination Results relating to Documents of  
the Prior Art

- Examined Technical Field: IPC 7th Edition

G10L15/00-15/28  
H04M11/04

Documents of the Prior Art

Japanese Laid-Open Patent Publication Hei 4-316300  
Japanese Laid-Open Patent Publication Hei 2-92140  
Japanese Laid-Open Patent Publication Sho 61-128700  
Japanese Laid-Open Patent Publication Hei 2-92140  
Japanese Laid-Open Patent Publication 2000-196782

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1. Claims 1, 2, 4, 5, 7, 10, 14

Reason 1

Citations 1-3

In accomplishing audio recognition by using a bone conduction microphone, and bone conduction speakers, as referred to in Citation 1; the cumulative application of "the point of making the recognition object to be sound produced within the mouth", as referred to in Citation 2 and the "point of accomplishing a determinative input relative to the recognition results" could be easily accomplished by one skilled in the Art by the identical nature of the technology sectors belonging to Citations 1-3.

Reference Citation List

1. Microfilm of Japanese Laid Open Utility Model application Sho 58-23304 (Japanese Laid Open Utility Model Sho 59-130141)
2. Japanese Laid Open Patent Publication Hei 5-333894
3. Japanese Laid Open Patent Publication Hei 10-268894

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Documents of the Prior Art

Japanese Laid-Open Patent Publication Hei 4-316300  
Japanese Laid-Open Patent Publication Hei 2-92140  
Japanese Laid-Open Patent Publication Sho 61-128700  
Japanese Laid-Open Patent Publication Hei 54819

APR 10 2002

Docket Number (Optional)

**02110051AA**

Application Number

**09/994,795**

**Applicant(s)**

nUMA

Filing Date

**November 28, 2001**

Group Art Unit

2183

## U.S. PATENT DOCUMENTS

[illegible]

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## FOREIGN PATENT DOCUMENTS

[illegible]

**OTHER DOCUMENTS** *(Including Author, Title, Date, Pertinent Pages, Etc.)*


**EXAMINER**

DATE CONSIDERED

**EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.